

THE TECH

VOL. XXVIII. No. 16

BOSTON, MASS., WEDNESDAY, NOVEMBER 4, 1908

PRICE THREE CENTS

POINT SYSTEM IS NOW LESS STRICT

Those Holding Offices in
Class A May Go Out
for Athletics

OTHER CHANGES MADE

Institute Committee Revises the
Point Rating System at
First Meeting

In a report presented by the sub-committee on point ratings to the Institute Committee at its meeting yesterday it was recommended that the members of class A, namely; editor-in-chief of The Tech, editor-in-chief of Technique, general manager of The Tech Show, and president of the senior class, should all be allowed to become candidates for varsity or class athletic teams.

In the original resolutions this provision was made to apply to classes B, C, D, and E, such candidacy being counted as 1, 2, 3, and 4 points respectively, but no mention was made of class A, thus eliminating from athletic competition its four members. This caused much comment and resulted in bringing before the committee on the point system the proposed amendment, which with others was adopted yesterday by the Institute Committee.

Yesterday's meeting was the first since the re-organization of the body following the various classes, and new officers were accordingly elected. James H. Critchett, president of the senior class, was elected president of the new body; Frank D. Stewart, president of 1910, was elected vice-president, and William C. Salisbury, president of 1911, secretary-treasurer.

James I. Finnie 1909, was appointed to the Technology Union Committee to fill the vacancy made by the resignation of Critchett, which was necessary under the rulings of the point system. A suggestion that members of committees appointed, as the Union Committee, be made members of the Institute Committee, but this was given over to a sub-committee on the constitution to report at the next meeting.

Committees were appointed by the chair as follows: Bulletinboard, C. W. Hubbard 1909, D. R. Stevens 1911; Union rooms, L. A. Loomis 1909, R. N. Hoyt 1909, J. M. Fitzwater 1910; revision of constitution, J. H. Critchett 1909, C. J. Belden 1909, J. M. Fitzwater 1910.

The report of the sub-committee on
(Continued on page 2.)

TALK ON COAST CHARTS

Cullimore to Address Civil
Engineering Society

A. R. Cullimore 1907, of the civil engineering department, will address the Civil Engineering Society, tomorrow afternoon at 4 o'clock in 11 Eng. B, on the work of the Hydrographic Branch of the United States Coast Survey, with which he has recently been connected.

In this work charts of soundings in the waters along the coast are made and joined to topographic maps of the land for varying distances inshore. This connecting of the safe channels with landmarks is invaluable to navigation and is also important in questions of coast defense. Especial interest is attached to the work because many of the men employed are officers in the navy and the entire division is under navy discipline.

A brief business meeting will be held, at which the names proposed for membership at the last meeting will be voted on and a number of new names will be proposed. Members of the three upper classes in Course I and XI, who desire to join the society may apply to any present member. The dues are 75 cents a year with an initiation fee of \$1.00.

FRESHMEN ELECT KEMP PRESIDENT

English High School Leader
Chosen to Head 1912
This Year

MOORE VICE-PRESIDENT

Seelye Retained as Secretary
Carpenter Made Treasurer
Other Results

Results of the freshman elections were given out yesterday afternoon at the meeting held in Huntington Hall at 1 P. M. Temporary President Follet called the meeting to order and the returns from the elections were read by Woodward of the 1912 Tug-of-War team.

President Kemp then took the chair and introduced the subject of cheering at the field. A motion was passed nominating Woodward, manager of the tug-of-war team, as cheer leader, both at the Field and at the Colonial Theatre. A motion was made that a freshman dinner be held, but it was proposed that the subject of a dinner be held over until a large number of freshmen could be gathered at a class meeting and then to have them decide whether or not there would be a dinner. This last motion was carried unanimously.

The results of the elections are as follows:—President, Donald Kemp; vice-president, E. B. Moore; secretary, Seth M. Seelye; treasurer, Charles H. Carpenter; Institute committee, Albert G. Gale, Arthur Campbell; Athletic Association, Seth H. Seelye, Harvey Benson, J. Taylor, Joseph Boyer, E. A. Eicher; Executive committee, W. M. Ruby, L. S. Hooper.

President Kemp is from English High School and was president of his class in 1908 and 1909. He was a major in the school battalion and has just been elected to the Union committee.

Vice-President E. B. Moore of Chauncey Hall School was president of his class in Chauncey Hall, and is a member of the 1912 theatre committee.

Seth H. Seelye of Andover Academy was elected from the position of temporary secretary to the position of the regular class secretary.

Charles H. Carpenter of Newton High School was elected treasurer. Carpenter has made a special success of collecting the class dues and is an excellent man for the position.

The men elected to the Institute committee are, Albert G. Gale of Gloucester High School, manager of the 1912 football team; and Arthur Campbell of Somerville High School.

The Athletic Association is made up of the men who have made the 1912 teams. The elections to this committee are, Seth H. Seelye, of Andover; Harvey Benson, manager of the 1912 relay; J. I. Taylor of Somerville High School, member of the 1912 track team; Joseph Boyer; and E. A. Eicher, of Andover Academy, the crack quarterback of the 1912 football team.

The executive committee elections are W. M. Ruby, of Exeter Academy, and L. S. Hooper, of Stone School. Hooper is an all-round athlete who has played football and baseball at Stone School, and is the center on the 1912 team.

REV. STOCKDALE TALKS

Rev. Allen A. Stockdale of Union Congregational Church will talk to the fellows in the Union Sunday evening at 6:45 P. M. At his invitation a number of Tech men enjoyed an "At Home," Given in Union Church to the students of Boston. Mr. Stockdale is at present chaplain of one of the larger colleges in the city and knows how to hold the interest of students with a good sound talk. He wants to make Union Church a real church for students and says he appreciates the privilege of meeting Tech men.

INSTITUTE ALUMNUS GOVERNOR OF STATE

Eben S. Draper Old Student
and Present Member of
Corporation

HIS RISE IN POLITICS

Steady Advance in Service of his
Party Since 1892—Business
and Social Work

With the election of Eben S. Draper 1878, to the office of governor of the Commonwealth of Massachusetts a Technology alumnus has received the greatest honor that the state can give to one of its citizens. Mr. Draper, besides attending the Institute as a student in his youth, has in recent years resumed his connection with it as a member of the Corporation.



Eben S. Draper

His career is an excellent example of the adaptability of Technology training to different and apparently unrelated occupations. After leaving the Institute he went into his father's machine shops and cotton mills, and was later admitted to the firm of George Draper & Sons. In 1896 when this firm was reorganized into the Draper Company, he became its selling agent. He is also a member of the corporations of the Peter Bent Brigham Hospital and the Milford Hospital, and a director in many business enterprises.

Up to the time of his nomination for governor, Mr. Draper had held many political positions. In 1812 he served as chairman of the Republican state committee, and in 1896 he was chairman of the Massachusetts delegation to the Republican national convention and as such was instrumental in securing the passage of the gold standard resolution. In 1900 he was presidential elector in the 11th district. His first election to the lieutenant-governorship of the state was in 1905. During the last year or two, the duties of the position included most of those of the governor, on account of the illness of Governor Guild, so that Mr. Draper may be said to have been elected definitely on the strength of his record.

LAST CALL FOR SEATS

Preliminary tickets for Field Day night must be exchanged for regular tickets at the Union today or tomorrow, between 12 and 2 P. M.

In no case will preliminary tickets be exchanged at the theatre. If you have not already exchanged your preliminary tickets please do so at once.

WILL EXPLAIN ROTARY ENGINE

J. H. Harriman to Describe
Invention to Mechanical
Engineers

DREAM OF INVENTORS

Overcomes Inefficiencies of the
Reciprocating Type and
Turbine

A practical rotary steam engine, the machine that has baffled inventors since the time of James Watt, will be discussed by the inventor, J. Emory Harriman, Jr., a Boston civil and consulting engineer, at the meeting of the Mechanical Engineering Society, Tuesday November 10, at the Union.

It is also very likely that he will also say something of his work in the investigation of aerial navigation, which finally led to his study of a very compact and efficient source of power.

Mr. Harriman claims to have overcome the most important defects of the old reciprocating form of engine, namely, friction within the cylinders and leakage of steam.

After five years of labor he has at last devised an engine with many original features that is now being tested in the Institute laboratories. At the talk he will exhibit a full sized model showing the interior workings of the machine. Also lantern slides will be shown prepared from photographs and plans. Mr. Harriman will give the details and results of the tests that have so far been made.

"Generations of engineers have realized that the rotary engine, if it could be made efficient, was the ideal engine," says the inventor. "Over the turbine, operated by the force of impact of steam, the rotary has very great advantages, not the least of which are its economy of power and its ability to start with instant force and stop instantly."

"With the old-fashioned reciprocating engine the rotary can compete unquestionably. It has the advantage of economy of space and in construction, and of utilizing the force of momentum. Horse power for horse power, the rotary can be built for about three-quarters of the cost of the reciprocating engine."

The question of the lightest possible motive power was but one part of Mr. Harriman's investigations.

Along with his consideration of the question of the lightest possible motive power, Mr. Harriman has kept up his interest in aerial flight in general. Although he has not done any actual experimentation, he has kept up with the work of others and had drawn up various schemes that have every promise of being successful.

In the Transcript, he has published a resume of the work so far accomplished together with the description of could alone be commercially attained.

(Continued on page 3.)

CALENDAR

WEDNESDAY, NOVEMBER 4.

GYM LOCKERS—Men having options on Gym lockers must settle at the Bursar's office for them before Field Day or the lockers will be let to others.

WEDNESDAY, NOVEMBER 4.

4:00 P. M.—Tech Show Board meeting at the Union.

THURSDAY, NOVEMBER 5.

4:00 P. M.—Civil Engineering Society meeting in 11 Eng. B.

7:00 P. M.—1909 Class dinner at the Union.

FRIDAY, NOVEMBER 6.

2:00 P. M.—Finish of Tech-Harvard race at the Field.

2:15 P. M.—Field Day contests begin at the Field.

8:00 P. M.—Tech Night at the Colonial Theatre.

THE TECH

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Wednesday, November 4, 1908.

Credit for the cartoon published by The Tech in its Republican Parade extra is due Wellesley J. Seligman 1911, the artist.

In a personal interview, Bursar Rand last night made the following statements in regard to Field Day.

Concerning the action of the sophomore class in abolishing the "Night Before" struggle, he said that he considered the idea most commendable and that the class was to be congratulated. The past custom has not been carried out in the right sort of spirit, and the results of the melees have demonstrated the wisdom of the recent act of abolition of the flag rush.

"The 'night before,'" he said, "has always interfered to a large extent with the good results of the next day. The plan for Field Day, the events, and the manner in which they are run off are not to be surpassed for the right sort of class spirit and safety. The fellows all should feel an affection for clean rivalry, and the many professors and members of the Corporation that attend Field Day all desire to see a clean, spirited contest. I look forward to the day every year with a great deal of heartiness and wouldn't miss it for anything."

Bursar Rand feels that the plan to have three pulls instead of one for the tug-of-war teams as formerly is a great improvement. He felt that one pull before was over so quickly that it was almost disappointing, and in some cases was not a real test of strength. He thinks that three trials will add much to the interest of the event.

In closing the Bursar expressed the hope that there would be a fine attendance at the contests from the undergraduates. The faculty and Corporation are greatly interested and are going to turn out in large numbers. 'Field Day' is one of the great days of the Institute and should be attended as such.

POINT SYSTEM

(Continued from page 1.)

the point system as accepted is as follows:

"The committee would first call your attention to the following mistakes in the copy of the point system printed in The Tech and given to the secretary.

"The advertising manager of the Tech Show was rated at 4 points during the first term, but this was omitted from the copy.

"The manager of the fencing team was left out and the tennis manager rated at both 6 and 4 points. The original plan rated the fencing manager at 6 points and the tennis manager at 4 points.

"The following additions to and changes in the scheme are recommended for adoption:

"The captain of the track team should be rated at 6 points instead of 8.

"The members of class A should be given the same privilege in regard to athletics as members of classes B, C, D, and E, that is, they should be allowed to go out for any class or varsity team without exceeding 10 points.

"The candidates for assistant manager of track team during the competition, and the assistant manager when chosen, should be rated at 5 points.

"The members of the Tech board should be arranged as follows: Editor-in-chief 10, managing editor 9, business manager 9, editors 8, assistant business managers 8, associate editors 6, news staff and candidates 4, business staff and candidates 4.

"The executive committees and directors of the classes should be rated at 1 point.

"The committee believes that it would not be inconsistent with this scheme to allow one man to be president of the M. I. T. A. A., captain of the track team, and a member of the advisory council, without exceeding limit of 10 points.

"It is recommended that no one man be allowed to serve on more than one standing committee of the Institute Committee, i. e., the executive committee, the Union Committee, and the regulation committee."

It was recommended that the rules committee submit at the next meeting point ratings for the Union Committee members.

TIME OF RACE ALTERED Cross Country Teams Finish After First-Half Football Game

Owing to a new university rule at Harvard that no athletic contest shall begin before 4 o'clock, the cross-country race will not finish at 2:15. The manager of the team has, however, obtained special permission to have the race start at 3 o'clock. This new condition of affairs will necessitate a slight re-arrangement of the Field Day events. Instead of having the cross-country race with Harvard finish before the regular events begin as has been the custom, this race, which is the feature of the day, will end at about 3:25 P. M. The first tug-of-war pull will come before the football game begins. The first half of the game should be over about 3:15. Between the halves will occur the relay race and the second tug-of-war pull. These events will probably take up fifteen minutes. With the cross-country race starting at 3 o'clock the first man should reach the Field before the cheers for the winning tug-of-war team have died away.

P. D. White, who made such a sensation in the fall meet by taking first in the 100-yard dash and the 1-2 mile has decided to give up his place on the cross-country team and run on the sophomore relay. White is a considerable loss to the cross-country team, as he has shown some very good work in the runs this fall. He will make one of the best men on his class team where his speed will be greatly needed if 1911 is to win the race. C. L. Batchelder 1909, who finished next to White in the cross-country trials would naturally be the man to take White's place on the team, but C. L. Campbell 1909, has shown up so well that it was decided to have these two men run a match race over the regular course for the vacant position. The men kept very close together for three miles. From this point on Batchelder's longer experience gave him the advantage and he gradually drew away from Campbell, who finished gamely a short distance behind.

COUPLER CONTEST

Italian College of Engineers
Offers Prize for Design

A competition for the design of a practical automatic railway coupler has been announced by the National College of Italian Railway Engineers, and notice has been forwarded to the Institute with the intention of calling the contest to the attention of the largest possible number of persons interested in the matter.

It is a well known fact that a large proportion of the accidents to railway employees are due directly or indirectly to imperfections in the car coupling system. In this country automatic couplers and train braking systems have for some time been required by law, and the results have shown a marked decrease in accidents due to troubles of this nature. According to the circular issued by the committee of the Italian Engineers College appointed to consider the matter, coupling by the turnbuckle and buffer system operated by hand by men standing between the cars is the usual method in Italy. Some experiments have been made with various European and American automatic devices, but none has yet been found sufficiently satisfactory to warrant its universal adoption over a large and rather poor system of railroads.

In order to make the study of the question of coupler improvement of more interest to the general public than a mere technical detail of the railway physical plant, the College of Engineers has instituted the contest above mentioned, and offers certain prizes, the amount of which is not stated in the circular notice, for the best solution of the problem. The right is reserved to use a reasonable number of couplers, built according to the specifications offered, for an unlimited time in actual service to determine their merits and defects in practice.

The committee feels that many good elements exist in present devices, but that they have not been happily combined, and that some new points must probably be added. In a similar contest held two years ago no prize was awarded, but honorable mention was granted to two companies, one Italian and the other German.

It is hoped that all persons with ideas on the subject will advance them for what they are worth. No limitation is made with regard to occupation or nationality of contestants. The competition is in charge of the National College of Italian Railway Engineers, 70 Via delle Muratte, Rome, Italy.

The engagement is announced of Miss Margery F. Adams, to Mr. Eugene G. Luening 1910, and also that of Miss Frances C. Woodbury to Mr. George Weinhausen, Jr., 1910. Both of the young men come from Milwaukee. The young women are from Allston.

RELAY TEAMS COMPLETE

At the final sophomore relay trials held at the Field Monday, G. A. Hodge was chosen as twelfth man and C. R. Johnson and C. P. Kerr as subs.

The team that will run against the freshmen Friday is made up of the following men:—W. J. Seligman, H. L. Robinson, R. O. Wood, J. A. Bigelow, F. C. Dolke, I. F. Morrison, R. H. Gould, J. L. McAllen, N. N. Prentiss, Capt. W. C. Salisbury, P. D. White, and G. A. Hodge.

The freshman team is as follows:—V. W. Allen, Harvey S. Benson, manager, J. S. Grant, N. G. Hershoff, A. H. Means, E. Mangan, M. A. Oettinger, Capt. W. C. Reed, J. I. Taylor, and L. B. Walker, J. Thompson, F. J. Shepard, Jr.

The substitutes are H. A. Robinson and C. L. Tuller.

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ROTARY ENGINE

(Continued from page 1.)

The balloon, as has been said by Edison, must be made so small that it can not be seen by a microscope. This has been the one main fault of Santos Dumont that has seriously handicapped him in his investigations and experiments.

As these general statements were made by Mr. Harriman more than three years ago, he claims the privilege to rightfully join the class of "I told you so's."

Non-members can secure tickets for 25 cents from C. W. Hubbard 1909, J. W. Nickerson 1909, R. W. Millard 1909, and H. A. Hale 1910.

CONTEST TO BE CLOSE

Football Game Will be one of the
 Most Interesting on Record

A comparison of the two football teams which will clash at the field next Friday seems to show that the squads are as evenly balanced as could possibly be desired. Both teams defeated Lowell Textile by a score of 18 to 0, making it impossible to choose either team as being the superior of the other.

The game on Field Day will commence at 2:15 and will consist of two 25-minute halves. These periods are longer than any played by either of the teams to date, and the struggle will go to the team which can stick out the long grind. The 1911 backs are by far the heavier of the two squads, but the freshman ends are strong and the remainder of the line will surely give the sophomores all they can take care of.

Kebbon and Hooper are both so tall that they could reach the ball right over their opponents' line, and Robertson can look over an ordinary sized individual. The 1912 quarter back, Eicher, who is contrastingly small when compared to the three big men in the line, makes up for what he lacks in size in agility, headwork and perfect familiarity with the game. Eicher, who was chosen captain of his team yesterday, will find a worthy opponent in Schatz, who

played the same position last year and who did so well in the game with Lowell Textile. Schatz has been well coached by Mr. Simons, who thinks highly of his ability. Schatz possesses the happy faculty of grasping all the details of a situation and of applying the correct play to the best advantage.

Kimball, Adams and Hutchins of the sophomore team, will probably rip a big hole in the freshman line, and Metcalf and especially O'Neill, can always be depended upon to take advantage of any openings.

All the football men have been requested by Major Briggs to be at the field in plenty of time to be ready to appear in their suits at 2:10 P. M.

Manager Williams 1911, and Manager Gale 1912, will publish their final choice of teams on Friday.

De Florez, Rush and Catching of last year's team, will not play on Friday. Some dissatisfaction has been manifested in the chance given the men who were out for the team, and it is understood that the choice of the men to play in the field-day game will not rest entirely with Coach Simmons.

The sophomore team will be partially crippled by the loss of Morey, the crack half back, who showed up so well in the Waltham game.

The probable lineup follows:—

1911.	1912.
Williams, r.e.	l.e., Riddell, Fuller
Van Tassett (Capt.), r.t.	Whittlesey, l.t.
Hutchins, r.g.	l.g., Robertson
Hall, c.	c., Hooper
Kimball, l.g.	r.g., Kelbon, Shuttleworth
Adams, l.t.	r.t., Barnes
Merrill, Smith, Evans, l.e.	
	r.e., Torry, Walsh
Schatz, q.b.	q.b., Eicher, (Capt.)
Metcalf, r.h.	l.h., Beale
Odell, l.h.	r.h., Mayr, Roberts
O'Neil, f.b.	f.b., Raymond

Seniors will have their first dinner as seniors Thursday evening at 6 P. M., in the Union. As speakers, the dinner committee has secured the first appearance together this year of the joint humorists, the Dean and the Bursar. Mr. Isaac W. Litchfield will address the seniors probably on the more serious side.

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NOTICES

SENIOR DINNER—At the Union Thursday evening, at 6 o'clock. Tickets 50 cents.

EPISCOPALIANS—Dr. Mann will begin his Bible talks for Tech men, Thursday evening at 7:15, in the Trinity parish house. All churchmen are invited.

PENNSYLVANIA CLUB DINNER—Dinner at the Union this evening. Every man from Pennsylvania is urged to attend.

STUDENTS—Are requested not to post notices of meetings until they get permission to hold the meetings.

Members of the Electrical Engineering Society meet in Lowell Bldg., Saturday November 7, and Tuesday November 10, for excursions to the Watertown Arsenal. Those who can do so are advised to go on Tuesday as there is more to be seen on that day. Those going should sign their names on one of the two lists posted on the society bulletin, as soon as possible.

FACULTY NOTICES

PRECISION OF MEASUREMENTS—Third year, Course III—Sections meet as follows: Sections 1a and 2, Monday 9-10 and Wednesday 2-3 in 26 Rogers; Sections 1b and 3, Thursday 2-3 and Friday 9-10 in 20 Walker.

LECTURE ON HYDROGRAPHIC SURVEYING—Mr. A. R. Cullimore will address the members of the Civic Engineering Society in 11 Eng. B. at 4:15 tomorrow. Subject: Hydrographic surveying.

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